

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21002

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 7/01, 15/63; C12Q 1/70; A61K 39/29  
US CL : 435/5, 6, 235.1, 455, 948; 424/186.1, 199.1, 218.1, 228.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 435/5, 6, 235.1, 455, 948; 424/186.1, 199.1, 218.1, 228.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/75337 A1 (THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES) 14 December 2000 (14.12.2000), see entire document.	1-58
Y	US 2001/0034019 A1 (HONG et al.) 25 October 2001 (25.10.2001), see entire document.	1-58
Y	LEMON et al. Internal Ribosome Entry Sites Within the RNA Genomes of Hepatitis C Virus and Other Flaviviruses. Seminars in Virology. 1997, Vol. 8, pages 274-288, see entire document.	1-58
Y	RJNBRAND et al. Mutational Analysis of the GB Virus B Internal Ribosome Entry Site. Journal of Virology. January 2000, Vol. 74, No. 2, pages 773-783, see entire document.	1-58
Y	FROLOV et al. Cis-Acting RNA Elements Required for Replication of Bovine Viral Diarrhea Virus-Hepatitis C Virus 5' Nontranslated Region Chimeras. RNA. 1998, Vol. 4, pages 1418-1435, see entire document.	1-58



Further documents are listed in the continuation of Box C.



See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance  
"E" earlier application or patent published on or after the international filing date  
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
"O" document referring to an oral disclosure, use, exhibition or other means  
"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

Date of the actual completion of the international search

29 September 2003 (29.09.2003)

Date of mailing of the international search report

28 OCT 2003

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

*James L. Grun, Ph.D.*

Telephone No. 703-308-0196

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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ZHAO et al. Poliovirus/Hepatitis C Virus (Internal Ribosome Entry Site-Core) Chimeric Viruses: Improved Growth Properties through Modification of a Proteolytic Cleavage Site and Requirement for Core RNA Sequences but Not for Core-Related Polypeptides. Journal of Virology. February 1999, Vol. 73, No. 2, pages 1546-1554, see entire document.	1-58

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**INTERNATIONAL SEARCH REPORT**

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**Continuation of B. FIELDS SEARCHED Item 3:**  
**DIALOG, EAST**  
search terms: GBV, HCV, chimeric